

# SEQUENCE LISTING

<110> YE, Jane et al

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ACID MOLECULES ENCODING HUMAN KINASE PROTEINS, AND USES  
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tcactctgtc acccaggctg gagtgcagtg gcatgatctc tgctcactac atctgcctcc 147540  
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accatgtgta gctaattttt tgtattttta gtagagatag gattttgcta agctggccag 147660  
gttggtttca aactcctggg ctcaagtgat ccgcccacct tggcctccca aagtgtctgg 147720  
attacaggcg tgagccacca aacctggcct tagaattact cttagaacag tggaatgcc 147780  
acacatccaa gacaggcaag ttcattggaga ctaagggaac agtggtatca tgtctccctt 147840  
ctcccttgtg cttactacaa gaatggcagg cagaattccc tacttattta aaatatcact 147900  
gatgtctcac tctttttctt tatattttat ttattgattt gccacaaagt ttaattcacc 147960

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taagtgagac gtgcatatga tgtaactcca ctgtacagat acacagatct ttacagaaga 148020
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<210> 4  
 <211> 404  
 <212> PRT  
 <213> Mus Musculus

<400> 4

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Glu	Val	Asn	Phe	Asp	His	Phe	Gln	Ile	Leu	Arg	Ala	Ile	Gly	Lys	Gly	20	25	30	
Ser	Phe	Gly	Lys	Val	Cys	Ile	Val	Gln	Lys	Arg	Asp	Thr	Lys	Lys	Met	35	40	45	
Tyr	Ala	Met	Lys	Tyr	Met	Asn	Lys	Gln	Lys	Cys	Val	Gln	Glu	Arg	Asp	50	55	60	
Glu	Val	Arg	Asn	Val	Phe	Arg	Glu	Leu	Gln	Ile	Met	Gln	Gly	Leu	Glu	65	70	75	80
His	Pro	Phe	Leu	Val	Asn	Leu	Trp	Tyr	Ser	Phe	Gln	Asp	Glu	Glu	Asp	85	90	95	
Met	Phe	Met	Val	Val	Asp	Leu	Leu	Leu	Gly	Gly	Asp	Leu	Arg	Tyr	His	100	105	110	
Leu	Gln	Gln	Asn	Val	His	Phe	Thr	Glu	Gly	Thr	Val	Lys	Leu	Tyr	Ile	115	120	125	
Cys	Glu	Leu	Ala	Leu	Ala	Leu	Glu	Tyr	Leu	Gln	Arg	Tyr	His	Ile	Ile	130	135	140	
His	Arg	Asp	Ile	Lys	Pro	Asp	Asn	Ile	Leu	Leu	Asp	Glu	His	Gly	His	145	150	155	160
Val	His	Ile	Thr	Asp	Phe	Asn	Ile	Ala	Thr	Val	Leu	Lys	Gly	Ser	Glu	165	170	175	
Lys	Ala	Ser	Ser	Met	Ala	Gly	Thr	Lys	Pro	Tyr	Met	Ala	Pro	Glu	Val	180	185	190	
Phe	Gln	Val	Tyr	Val	Asp	Gly	Gly	Pro	Gly	Tyr	Ser	Tyr	Pro	Val	Asp	195	200	205	
Trp	Trp	Ser	Leu	Gly	Val	Thr	Ala	Tyr	Glu	Leu	Leu	Arg	Gly	Trp	Arg	210	215	220	
Pro	Tyr	Glu	Ile	His	Ser	Ala	Thr	Pro	Ile	Asp	Glu	Ile	Leu	Asn	Met	225	230	235	240
Phe	Lys	Val	Glu	Arg	Val	His	Tyr	Ser	Ser	Thr	Trp	Cys	Glu	Gly	Met	245	250	255	
Val	Ser	Leu	Leu	Lys	Lys	Leu	Leu	Thr	Lys	Asp	Pro	Glu	Ser	Arg	Leu	260	265	270	
Ser	Ser	Leu	Arg	Asp	Ile	Gln	Ser	Met	Thr	Tyr	Leu	Ala	Asp	Met	Asn	275	280	285	
Trp	Asp	Ala	Val	Phe	Glu	Lys	Ala	Leu	Met	Pro	Gly	Phe	Val	Pro	Asn	290	295	300	
Lys	Gly	Arg	Leu	Asn	Cys	Asp	Pro	Thr	Phe	Glu	Leu	Glu	Glu	Met	Ile	305	310	315	320
Leu	Glu	Ser	Lys	Pro	Leu	His	Lys	Lys	Lys	Lys	Arg	Leu	Ala	Lys	His	325	330	335	
Arg	Ser	Arg	Asp	Ser	Thr	Lys	Asp	Ser	Cys	Pro	Leu	Asn	Gly	His	Leu	340	345	350	
Gln	Gln	Cys	Leu	Glu	Thr	Val	Arg	Lys	Glu	Phe	Ile	Ile	Phe	Asn	Arg				



355 360 365  
 Glu Lys Leu Arg Arg Gln Gln Gly His Asp Gly Gln Leu Ser Asp Leu  
 370 375 380  
 Asp Gly Arg Ile Gly Ser Gln Thr Ser Ser Lys Leu Gln Asp Gly Arg  
 385 390 395 400  
 Asn Asn Asn Ile

<210> 5  
 <211> 403  
 <212> PRT  
 <213> Human

<400> 5  
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 Ser Phe Gly Lys Val Cys Ile Val Gln Lys Arg Asp Thr Lys Lys Met  
 35 40 45  
 Tyr Ala Met Lys Tyr Met Asn Lys Gln Lys Cys Ile Glu Arg Asp Glu  
 50 55 60  
 Val Arg Asn Val Phe Arg Glu Leu Gln Ile Met Gln Gly Leu Glu His  
 65 70 75 80  
 Pro Phe Leu Val Asn Leu Trp Tyr Ser Phe Gln Asp Glu Glu Asp Met  
 85 90 95  
 Phe Met Val Val Asp Leu Leu Leu Gly Gly Asp Leu Arg Tyr His Leu  
 100 105 110  
 Gln Gln Asn Val His Phe Thr Glu Gly Thr Val Lys Leu Tyr Ile Cys  
 115 120 125  
 Glu Leu Ala Leu Ala Leu Glu Tyr Leu Gln Arg Tyr His Ile Ile His  
 130 135 140  
 Arg Asp Ile Lys Pro Asp Asn Ile Leu Leu Asp Glu His Gly His Val  
 145 150 155 160  
 His Ile Thr Asp Phe Asn Ile Ala Thr Val Val Lys Gly Ala Glu Arg  
 165 170 175  
 Ala Ser Ser Met Ala Gly Thr Lys Pro Tyr Met Ala Pro Glu Val Phe  
 180 185 190  
 Gln Val Tyr Met Asp Arg Gly Pro Gly Tyr Ser Tyr Pro Val Asp Trp  
 195 200 205  
 Trp Ser Leu Gly Ile Thr Ala Tyr Glu Leu Leu Arg Gly Trp Arg Pro  
 210 215 220  
 Tyr Glu Ile His Ser Val Thr Pro Ile Asp Glu Ile Leu Asn Met Phe  
 225 230 235 240  
 Lys Val Glu Arg Val His Tyr Ser Ser Thr Trp Cys Lys Gly Met Val  
 245 250 255  
 Ala Leu Leu Arg Lys Leu Leu Thr Lys Asp Pro Glu Ser Arg Val Ser  
 260 265 270  
 Ser Leu His Asp Ile Gln Ser Val Pro Tyr Leu Ala Asp Met Asn Trp  
 275 280 285  
 Asp Ala Val Phe Lys Lys Ala Leu Met Pro Gly Phe Val Pro Asn Lys  
 290 295 300  
 Gly Arg Leu Asn Cys Asp Pro Thr Phe Glu Leu Glu Glu Met Ile Leu  
 305 310 315 320  
 Glu Ser Lys Pro Leu His Lys Lys Lys Lys Arg Leu Ala Lys Asn Arg  
 325 330 335  
 Ser Arg Asp Gly Thr Lys Asp Ser Cys Pro Leu Asn Gly His Leu Gln  
 340 345 350  
 His Cys Leu Glu Thr Val Arg Glu Glu Phe Ile Ile Phe Asn Arg Glu  
 355 360 365  
 Lys Leu Arg Arg Gln Gln Gly Gln Gly Ser Gln Leu Leu Asp Thr Asp  
 370 375 380

Ser Arg Gly Gly Gly Gln Ala Gln Ser Lys Leu Gln Asp Gly Cys Asn  
 385 390 395 400  
 Asn Asn Leu

<210> 6  
 <211> 384  
 <212> PRT  
 <213> Mus Musculus

<400> 6  
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 1 5 10 15  
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 20 25 30  
 Cys Ile Val Gln Lys Arg Asp Thr Glu Lys Met Tyr Ala Met Lys Tyr  
 35 40 45  
 Met Asn Lys Gln Gln Cys Ile Glu Arg Asp Glu Val Arg Asn Val Phe  
 50 55 60  
 Arg Glu Leu Glu Ile Leu Gln Glu Ile Glu His Val Phe Leu Val Asn  
 65 70 75 80  
 Leu Trp Tyr Ser Phe Gln Asp Glu Glu Asp Met Phe Met Val Val Asp  
 85 90 95  
 Leu Leu Leu Gly Gly Asp Leu Arg Tyr His Leu Gln Gln Asn Val Gln  
 100 105 110  
 Phe Ser Glu Asp Thr Val Arg Leu Tyr Ile Cys Glu Met Ala Leu Ala  
 115 120 125  
 Leu Asp Tyr Leu Arg Ser Gln His Ile Ile His Arg Asp Val Lys Pro  
 130 135 140  
 Asp Asn Ile Leu Leu Asp Glu Gln Gly His Ala His Leu Thr Asp Phe  
 145 150 155 160  
 Asn Ile Ala Thr Ile Ile Lys Asp Gly Glu Arg Ala Thr Ala Leu Ala  
 165 170 175  
 Gly Thr Lys Pro Tyr Met Ala Pro Glu Ile Phe His Ser Phe Val Asn  
 180 185 190  
 Gly Gly Thr Gly Tyr Ser Phe Glu Val Asp Trp Trp Ser Val Gly Val  
 195 200 205  
 Met Ala Tyr Glu Leu Leu Arg Gly Trp Arg Pro Tyr Asp Ile His Ser  
 210 215 220  
 Ser Asn Ala Val Glu Ser Leu Val Gln Leu Phe Ser Thr Val Ser Val  
 225 230 235 240  
 Gln Tyr Val Pro Thr Trp Ser Lys Glu Met Val Ala Leu Leu Arg Lys  
 245 250 255  
 Leu Leu Thr Val Asn Pro Glu His Arg Phe Ser Ser Leu Gln Asp Met  
 260 265 270  
 Gln Thr Ala Pro Ser Leu Ala His Val Leu Trp Asp Asp Leu Ser Glu  
 275 280 285  
 Lys Lys Val Glu Pro Gly Phe Val Pro Asn Lys Gly Arg Leu His Cys  
 290 295 300  
 Asp Pro Thr Phe Glu Leu Glu Glu Met Ile Leu Glu Ser Arg Pro Leu  
 305 310 315 320  
 His Lys Lys Lys Lys Arg Leu Ala Lys Asn Lys Ser Arg Asp Ser Ser  
 325 330 335  
 Arg Asp Ser Ser Gln Ser Glu Asn Asp Tyr Leu Gln Asp Cys Leu Asp  
 340 345 350  
 Ala Ile Gln Gln Asp Phe Val Ile Phe Asn Arg Glu Lys Leu Lys Arg  
 355 360 365  
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 370 375 380

<210> 7

<211> 316  
 <212> PRT  
 <213> Homo sapiens

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 Glu Gly Thr Val Lys Leu Tyr Ile Cys Glu Leu Ala Leu Ala Leu Glu  
 35 40 45  
 Tyr Leu Gln Arg Tyr His Ile Ile His Arg Asp Ile Lys Pro Asp Asn  
 50 55 60  
 Ile Leu Leu Asp Glu His Gly His Val His Ile Thr Asp Phe Asn Ile  
 65 70 75 80  
 Ala Thr Val Val Lys Gly Ala Glu Arg Ala Ser Ser Met Ala Gly Thr  
 85 90 95  
 Lys Pro Tyr Met Ala Pro Glu Val Phe Gln Val Tyr Met Asp Arg Gly  
 100 105 110  
 Pro Gly Tyr Ser Tyr Pro Val Asp Trp Trp Ser Leu Gly Ile Thr Ala  
 115 120 125  
 Tyr Glu Leu Leu Arg Gly Trp Arg Pro Tyr Glu Ile His Ser Val Thr  
 130 135 140  
 Pro Ile Asp Glu Ile Leu Asn Met Phe Lys Val Glu Arg Val His Tyr  
 145 150 155 160  
 Ser Ser Thr Trp Cys Lys Gly Met Val Ala Leu Leu Arg Lys Leu Leu  
 165 170 175  
 Thr Lys Asp Pro Glu Ser Arg Val Ser Ser Leu His Asp Ile Gln Ser  
 180 185 190  
 Val Pro Tyr Leu Ala Asp Met Asn Trp Asp Ala Val Phe Lys Lys Ala  
 195 200 205  
 Leu Met Pro Gly Phe Val Pro Asn Lys Gly Arg Leu Asn Cys Asp Pro  
 210 215 220  
 Thr Phe Glu Leu Glu Glu Met Ile Leu Glu Ser Lys Pro Leu His Lys  
 225 230 235 240  
 Lys Lys Lys Arg Leu Ala Lys Asn Arg Ser Arg Asp Gly Thr Lys Asp  
 245 250 255  
 Ser Cys Pro Leu Asn Gly His Leu Gln His Cys Leu Glu Thr Val Arg  
 260 265 270  
 Glu Glu Phe Ile Ile Phe Asn Arg Glu Lys Leu Arg Arg Gln Gln Gly  
 275 280 285  
 Gln Gly Ser Gln Leu Leu Asp Thr Asp Ser Arg Gly Gly Gly Gln Ala  
 290 295 300  
 Gln Ser Lys Leu Gln Asp Gly Cys Asn Asn Asn Leu  
 305 310 315

<210> 8  
 <211> 347  
 <212> PRT  
 <213> Caenorhabditis elegans

<400> 8  
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 Cys Ile Val Gln Glu Arg Lys Thr Lys Lys Tyr Phe Ala Leu Lys Tyr  
 20 25 30  
 Met Asn Lys Arg Arg Cys Ile Glu Lys Gly Val Ala Ala Asn Val Ile  
 35 40 45  
 Arg Glu Leu Thr Leu Leu Ser Lys Met Ser His Pro Phe Ile Val Asn  
 50 55 60  
 Leu Trp Tyr Thr Phe Gln Asp Gly Asp Tyr Met Tyr Met Val Ser Asp  
 65 70 75 80



